

# M M Abid Naziri

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## About Me

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My research focuses on testing software, specifically learning-enabled systems. My current projects include testing deep learning libraries such as **PyTorch** and **TensorFlow** and simulation-based test generation for **Autonomous Driving Systems**. I have reported 94 bugs (74 confirmed) to **PyTorch** and **TensorFlow** to date [list].

## Education

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NC State University, PhD in Computer Science (4th year) May 2027 (Expected)

Advisor: Dr. Marcelo d'Amorim

Award: Graduate Merit Award - Summer 2025

## Publications

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**BugsInDLLs : A Database of Reproducible Bugs in Deep Learning Libraries to Enable Systematic Evaluation of Testing Techniques** ISSTA 2025

*M M Abid Naziri*, Aman Kumar Singh, Benjamin Wu, Feiran (Alex) Qin, Saikat Dutta, Marcelo d'Amorim  
The ACM SIGSOFT International Symposium on Software Testing and Analysis (ISSTA 2025)

*Tool Demonstration Track* [pdf]

**Evaluating the Effectiveness of Neurosymbolic Constraint Learning for Testing Deep Learning Library APIs** Submitted

*M M Abid Naziri*, Shinhae Kim, Feiran Qin, Saikat Dutta, Marcelo d'Amorim

*Submitted*

**Testing Autonomous Driving Systems with Focused Misbehavior Forecasting** Submitted

*M M Abid Naziri*, Stefano Carlo Lambertenghi, Andrea Stocco, Marcelo d'Amorim

*Submitted*

**Evaluating the Effectiveness of Coverage-Guided Fuzzing for Testing Deep Learning Library APIs** Submitted

Feiran Qin, *M M Abid Naziri*, Hengyu Ai, Saikat Dutta, Marcelo d'Amorim

*Submitted* [preprint]

## Experience

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**Senior Software Engineer**, Enosis Solutions – Dhaka, Bangladesh Mar 2019 – Jul 2022

- Developed scalable web applications using Vue JS, TypeScript, and ASP.NET Core, including a project management tool deployed to 270 employees and a Welder Management system
- Developed desktop applications DesignCalcs and ProWrite for pressure vessel design, adding features, fixing bugs, and creating unit/regression tests
- Managed CI/CD pipelines, configured testing servers, and ensured smooth system operations
- Operated in an **Agile** development process in a development team of 7 people
- Mentored new recruits, conducted code/design reviews
- Collaborated with clients and team members via **JIRA**

## Technologies

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**Languages:** Python, R, C#, Delphi, Java, C/C++ , JavaScript, TypeScript, Bash

**Technologies:** PyTorch, TensorFlow, Carla Simulator, ASP.NET Core, React JS, Vue JS, TestComplete, DUnit